ELSEVIER J. Non-Newtonian Fluid Mech., 58 (1995) 363–364

Journal of Non-Newtonian Fluid Mechanics

Contents of Vol. 58

Vol. 58, No. 1

Use of the finite element modelling technique for the improvement of viscometry results obtained by cone-and-plate rheometers
J. Petera and V. Nassehi (Loughborough, UK) 1
Stability constraints in the formulation of viscoelastic constitutive equations
Y. Kwon and A.I. Leonov (Akron, OH, USA) 25
An experimental investigation of the interfacial instability in superposed flow of viscoelastic fluids in a converging/diverging channel geometry
B. Khomami and G.M. Wilson (St. Louis, MO, USA) 47
Numerical simulation of particle migration in concentrated suspensions by a finite volume method
Z. Fang and N. Phan-Thien (Sydney, N.S.W., Australia) 67

Short communication
A matched solution for corner flow of the upper convected Maxwell fluid
M. Renardy (Blacksburg, VA, USA) 83

Book reviews 91
Calendar 93

Vol. 58, Nos. 2/3

Modeling and computation of the onset of failure in polymeric liquid filaments
Q. Wang (Indianapolis, IN, USA), M.G. Forest and S.E. Bechtel (Columbus, OH, USA) ... 97
Anisotropic viscoelasticity of side chain nematic polymers
A.D. Rey (Montreal, Que., Canada) 131
Air-blast atomization of non-Newtonian liquids
A. Mansour and N. Chigier (Pittsburgh, PA, USA) 161
Electro-magneto-rheological effects in parallel-field and crossed-field systems
K. Koyama, K. Minagawa, T. Watanabe, Y. Kumakura and J. Takimoto (Yonezawa, Japan) 195
On the determination of the plug flow region in Bingham fluids through the application of variational inequalities
R.R. Huilgol and M.P. Panizza (Adelaide, S.A., Australia) 207
Viscoelastic flow between two opposing orifices
J. Sun, N. Phan-Thien and R.I. Tanner (Sydney, N.S.W., Australia) 219
An experimental investigation of the flow of dilute polymer solutions through corrugated channels
R.C. Yalamanchili, A. Sirivat and K.R. Rajagopal (Pittsburgh, PA, USA) 243
Finite element simulation of flow around a $3\pi/2$ corner using the FENE dumbbell model
P. Singh and L.G. Leal (Santa Barbara, CA, USA) 279

A convergence study for the numerical simulation of the IUPAC–LDPE extrusion experiments
G. Barakos and E. Mitsoulis (Ottawa, Ont., Canada) 315
Non-linear overstability in the thermal convection of viscoelastic fluids
R.E. Khayat (Boucherville, Que., Canada) 331

Calendar 357

Subject Index of Vol. 58 361

Author Index of Vol. 58 362

Contents of Vol. 58 363